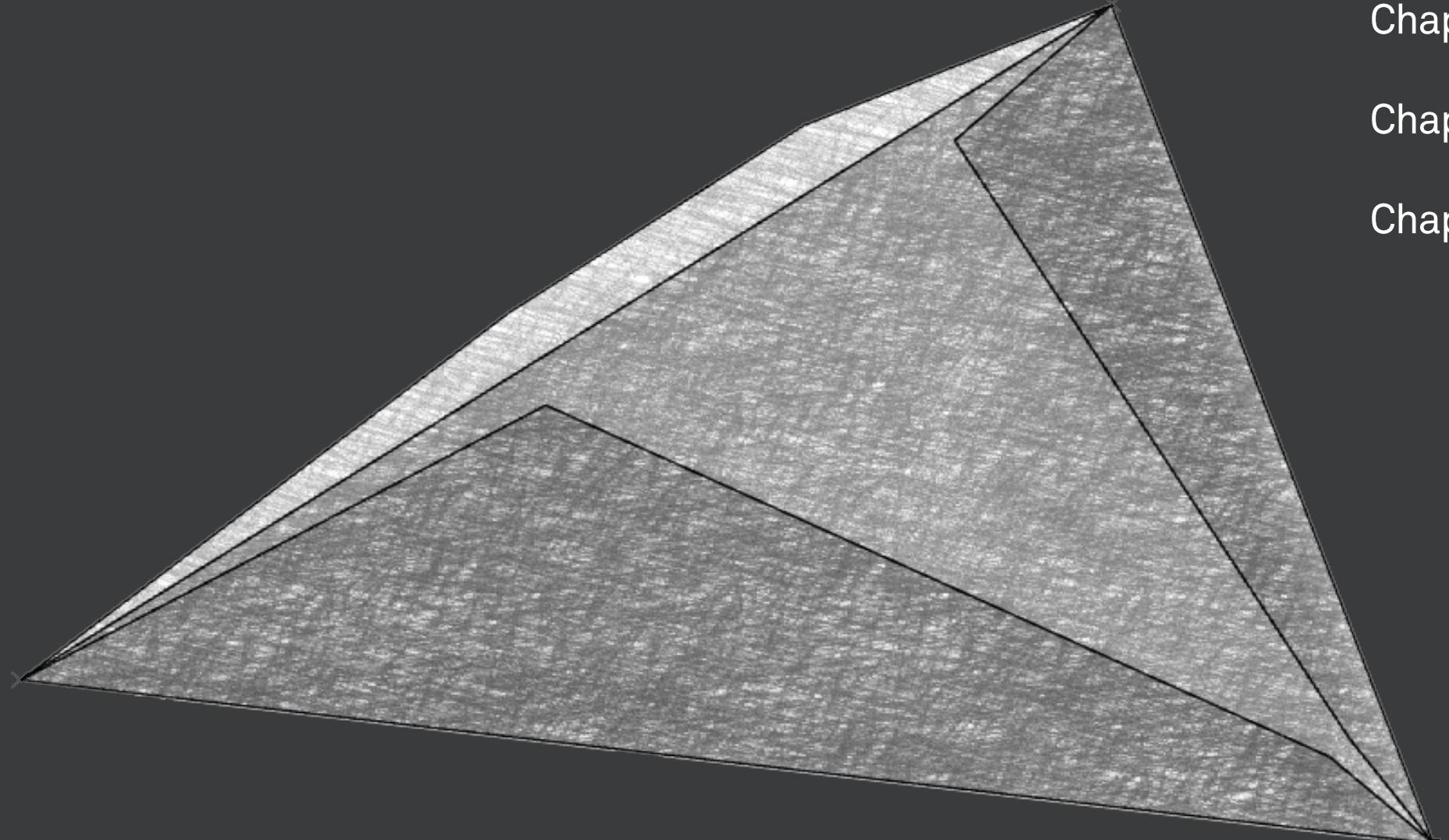


# Universe-Art installation

SCI-Arc//AS2583 - CATIA: Intelligent Digital Systems  
RAKSHA SHREE HIRIYADKA SHETTY



## INDEX

Chapter I: PC MODULE & INSTANTIATED PC

Chapter II: IMAGINE AND SHAPE

Chapter III: PART DESIGN

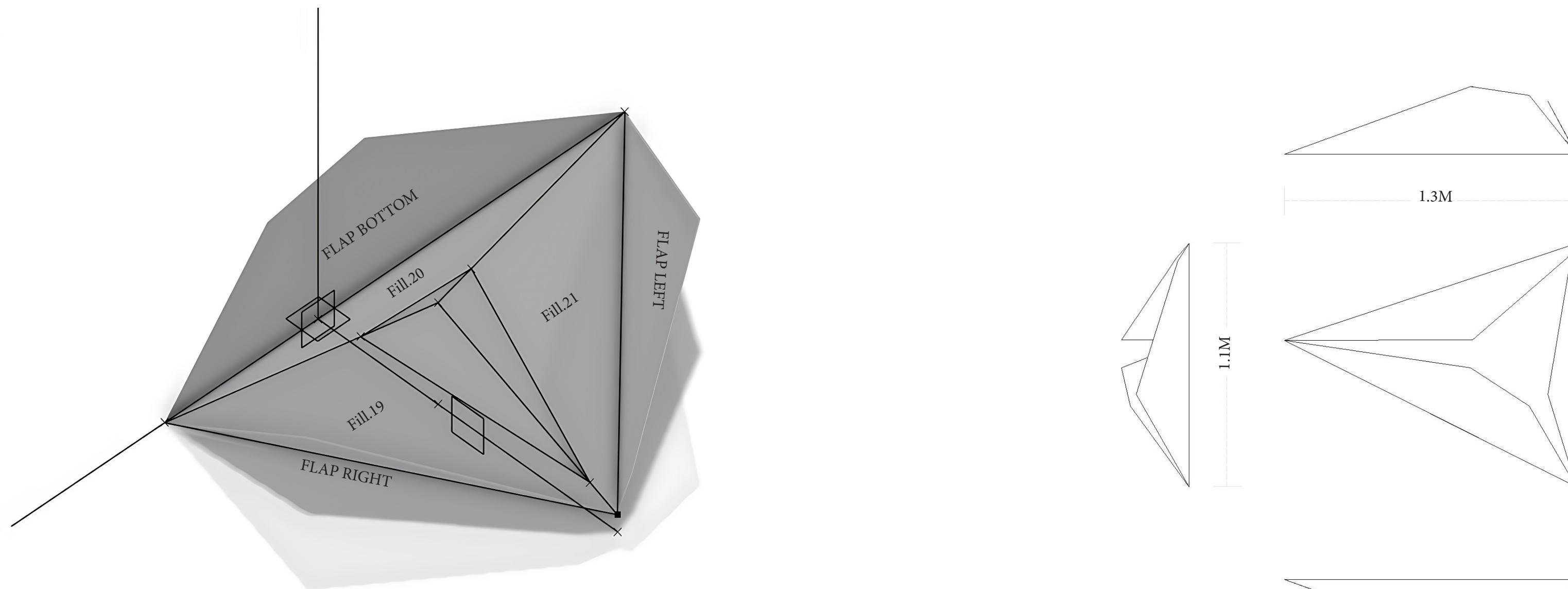
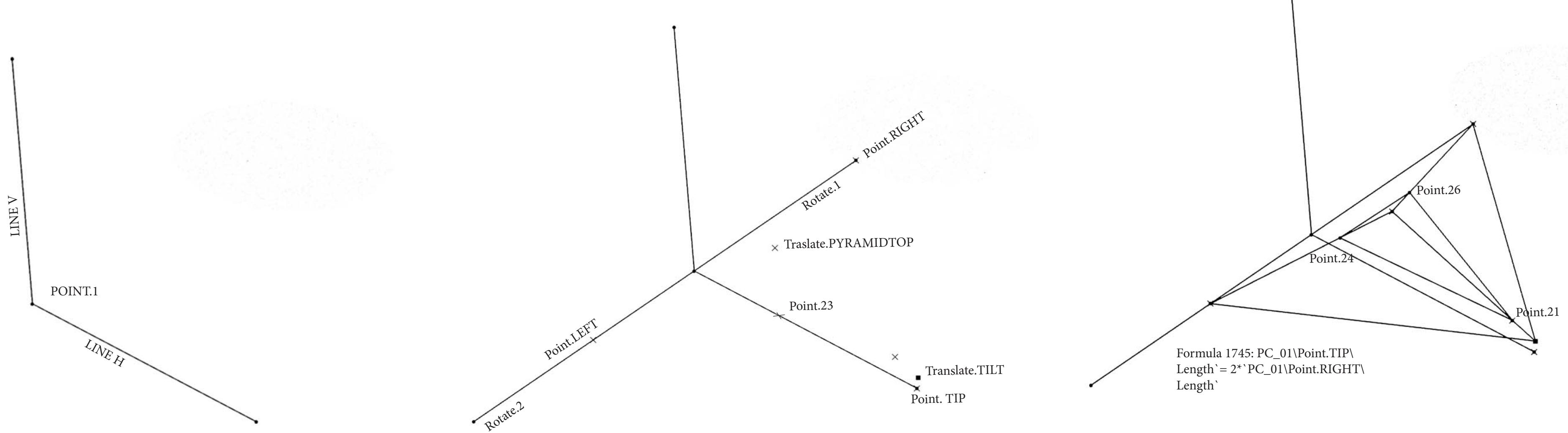
Chapter IV: xGen

Chapter V: FINAL DESIGN PROJECT

## UNIVERSE vs TECHNOLOGY

This art installation aims to portray the relationship and gaps between technology and universe. Solidity of technology inhibited by universe as serendipity. Module is the abstract form of power pyramid. Module in group represents the network of technologies shaping the universe. Powercopy prototype designed provides flexibility to generate variation in triangular base and flap angle. Each flap is related to other with formulas and angle of flap rules the color of the module.





3- FILL AND ROTATE

Relations:  
 $\text{FLAP BOTTOM} = -\sin(\text{PC\_01}\backslash\text{FLAP RIGHT}\backslash\text{Angle})$   
 $\text{FLAP LEFT} = \text{Angle.FLAPRIGHT}$

PLAN AND ELEVATIONS

CONSTRUCTION

```

/* Rule created by raksh 10/16/2022/
if 'Angle.FLAPRIGHT' > 4deg
{
    'PC_01FLAP RIGHT'.Color = "0,49,82"
    'PC_01FLAP BOTTOM'.Color = "0,49,82"
    'PC_01FLAP LEFT'.Color = "0,49,82"
    'PC_01FLAP BASE'.Color = "0,49,82"
}

if 'Angle.FLAPRIGHT' > 9deg
{
    'PC_01FLAP RIGHT'.Color = "29,41,81"
    'PC_01FLAP BOTTOM'.Color = "29,41,81"
    'PC_01FLAP LEFT'.Color = "29,41,81"
    'PC_01FLAP BASE'.Color = "29,41,81"
}

if 'Angle.FLAPRIGHT' > 14deg
{
    'PC_01FLAP RIGHT'.Color = "17,30,108"
    'PC_01FLAP BOTTOM'.Color = "17,30,108"
    'PC_01FLAP LEFT'.Color = "17,30,108"
    'PC_01FLAP BASE'.Color = "17,30,108"
}

if 'Angle.FLAPRIGHT' > 19deg
{
    'PC_01FLAP RIGHT'.Color = "14,77,146"
    'PC_01FLAP BOTTOM'.Color = "14,77,146"
    'PC_01FLAP LEFT'.Color = "14,77,146"
    'PC_01FLAP BASE'.Color = "14,77,146"
}

if 'Angle.FLAPRIGHT' > 24deg
{
    'PC_01FLAP RIGHT'.Color = "0,125,255"
    'PC_01FLAP BOTTOM'.Color = "0,125,255"
    'PC_01FLAP LEFT'.Color = "0,125,255"
    'PC_01FLAP BASE'.Color = "0,125,255"
}

if 'Angle.FLAPRIGHT' > 29deg
{
    'PC_01FLAP RIGHT'.Color = "15,82,186"
    'PC_01FLAP BOTTOM'.Color = "15,82,186"
    'PC_01FLAP LEFT'.Color = "15,82,186"
    'PC_01FLAP BASE'.Color = "15,82,186"
}

if 'Angle.FLAPRIGHT' > 34deg
{
    'PC_01FLAP RIGHT'.Color = "0,142,204"
    'PC_01FLAP BOTTOM'.Color = "0,142,204"
    'PC_01FLAP LEFT'.Color = "0,142,204"
    'PC_01FLAP BASE'.Color = "0,142,204"
}

if 'Angle.FLAPRIGHT' > 39deg
{
    'PC_01FLAP RIGHT'.Color = "0,128,129"
    'PC_01FLAP BOTTOM'.Color = "0,128,129"
    'PC_01FLAP LEFT'.Color = "0,128,129"
    'PC_01FLAP BASE'.Color = "0,128,129"
}

if 'Angle.FLAPRIGHT' > 44deg
{
    'PC_01FLAP RIGHT'.Color = "76,81,109"
    'PC_01FLAP BOTTOM'.Color = "76,81,109"
    'PC_01FLAP LEFT'.Color = "76,81,109"
    'PC_01FLAP BASE'.Color = "76,81,109"
}

if 'Angle.FLAPRIGHT' > 49deg
{
    'PC_01FLAP RIGHT'.Color = "113,194,251"
    'PC_01FLAP BOTTOM'.Color = "113,194,251"
    'PC_01FLAP LEFT'.Color = "113,194,251"
    'PC_01FLAP BASE'.Color = "113,194,251"
}

if 'Angle.FLAPRIGHT' > 54deg
{
    'PC_01FLAP RIGHT'.Color = "114,133,165"
    'PC_01FLAP BOTTOM'.Color = "114,133,165"
    'PC_01FLAP LEFT'.Color = "114,133,165"
    'PC_01FLAP BASE'.Color = "114,133,165"
}

if 'Angle.FLAPRIGHT' > 59deg
{
    'PC_01FLAP RIGHT'.Color = "79,151,163"
    'PC_01FLAP BOTTOM'.Color = "79,151,163"
    'PC_01FLAP LEFT'.Color = "79,151,163"
    'PC_01FLAP BASE'.Color = "79,151,163"
}

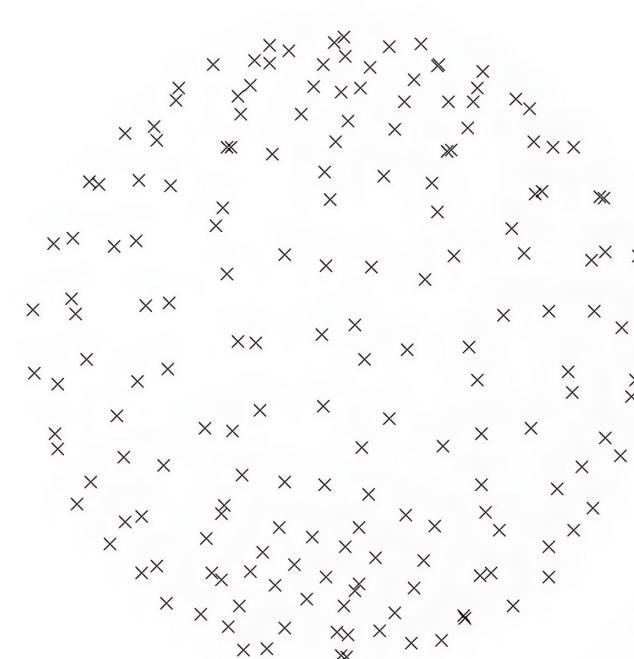
if 'Angle.FLAPRIGHT' > 64deg
{
    'PC_01FLAP RIGHT'.Color = "129,216,208"
    'PC_01FLAP BOTTOM'.Color = "129,216,208"
    'PC_01FLAP LEFT'.Color = "129,216,208"
    'PC_01FLAP BASE'.Color = "129,216,208"
}

if 'Angle.FLAPRIGHT' > 69deg
{
    'PC_01FLAP RIGHT'.Color = "129,216,208"
    'PC_01FLAP BOTTOM'.Color = "129,216,208"
    'PC_01FLAP LEFT'.Color = "129,216,208"
    'PC_01FLAP BASE'.Color = "129,216,208"
}

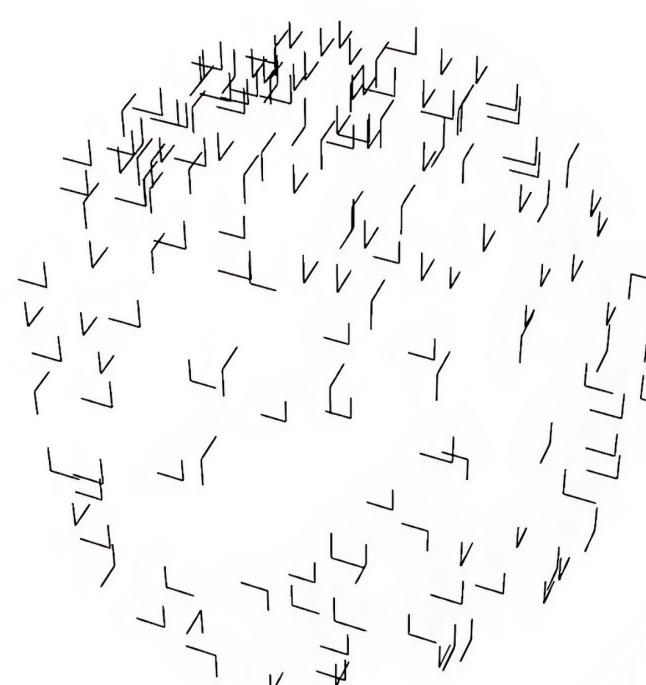
if 'Angle.FLAPRIGHT' > 74deg
{
    'PC_01FLAP RIGHT'.Color = "149,200,216"
    'PC_01FLAP BOTTOM'.Color = "149,200,216"
    'PC_01FLAP LEFT'.Color = "149,200,216"
    'PC_01FLAP BASE'.Color = "149,200,216"
}

if 'Angle.FLAPRIGHT' > 79deg
{
    'PC_01FLAP RIGHT'.Color = "176,223,229"
    'PC_01FLAP BOTTOM'.Color = "176,223,229"
    'PC_01FLAP LEFT'.Color = "176,223,229"
    'PC_01FLAP BASE'.Color = "176,223,229"
}

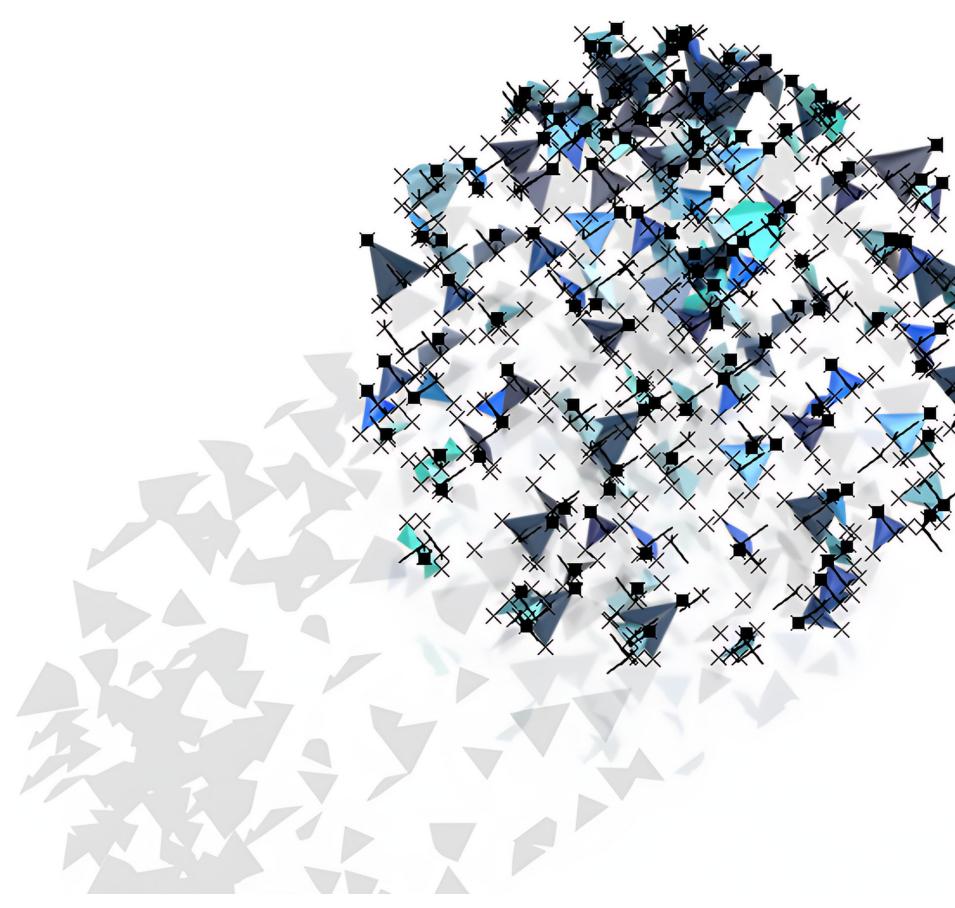
```



5- POINTS



6- TRANSLATED GRID LINES



7- INSTANTIATED THE POWERCOPY



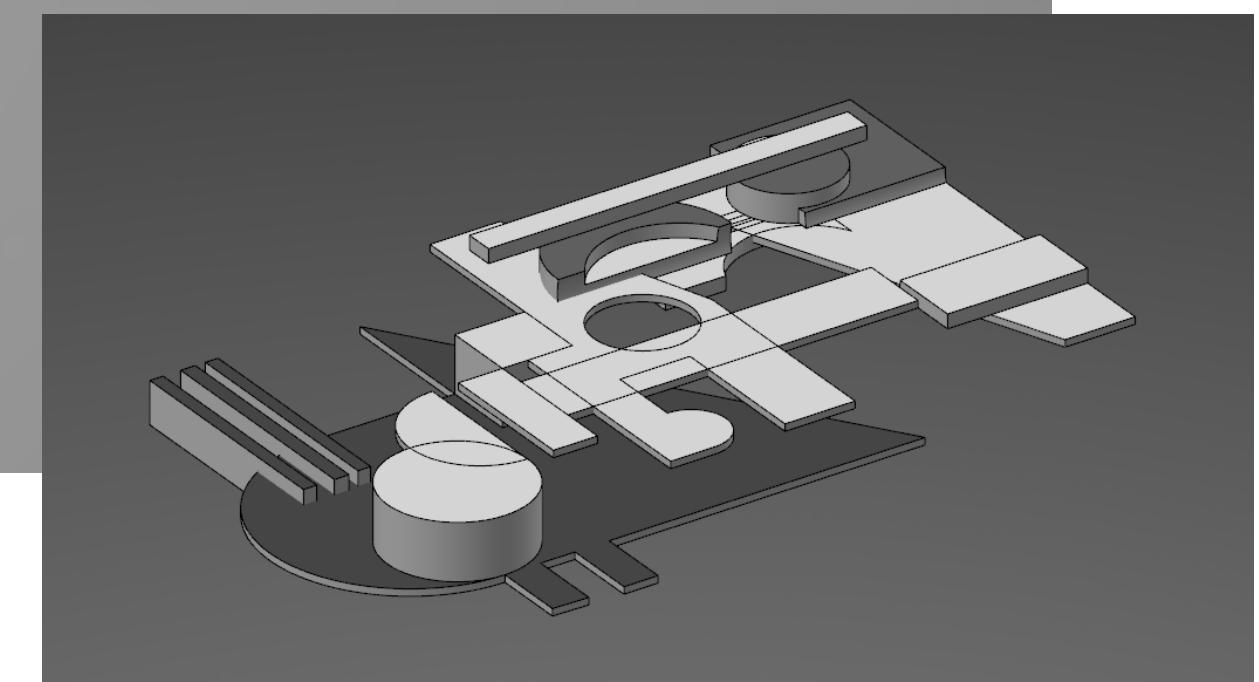
4- COLOR RULE APPLIED, these are the set of rules applied to achieve the variation in color shades respective to the flap angle. This particular quality gives character to the installation in addition to the idea of parametrical power.





### PART DESIGN - WALL ART

This wall art is the combination of variety of geometrical patterns. The composition gives the deep understanding of beauty in heterogeneity. Different language of shape, variation in color and thickness of solid is combined to create positive and negative spaces which results in variation of depth for shadow play.

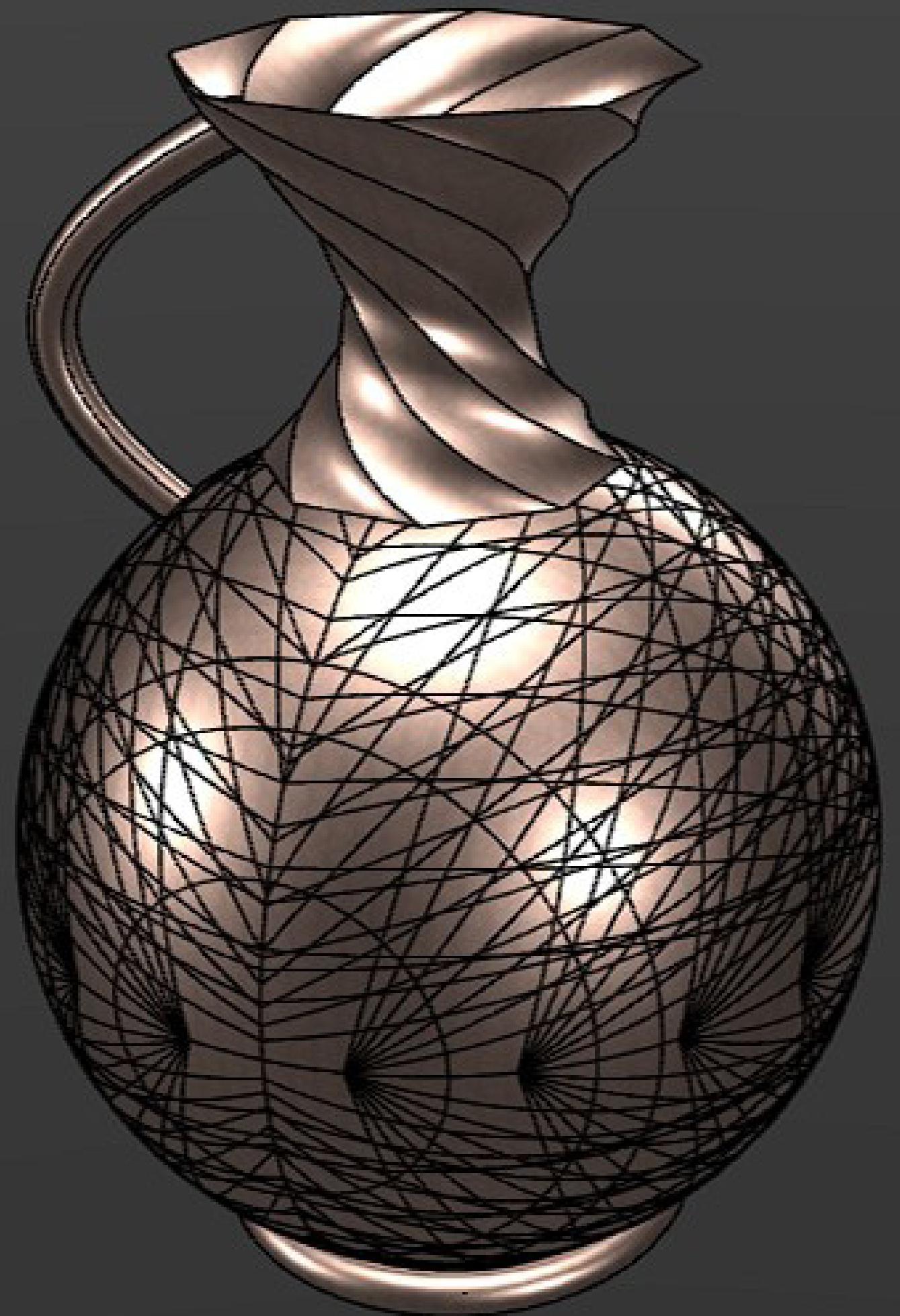




### IMAGINE AND SHAPE- FLY HIGH

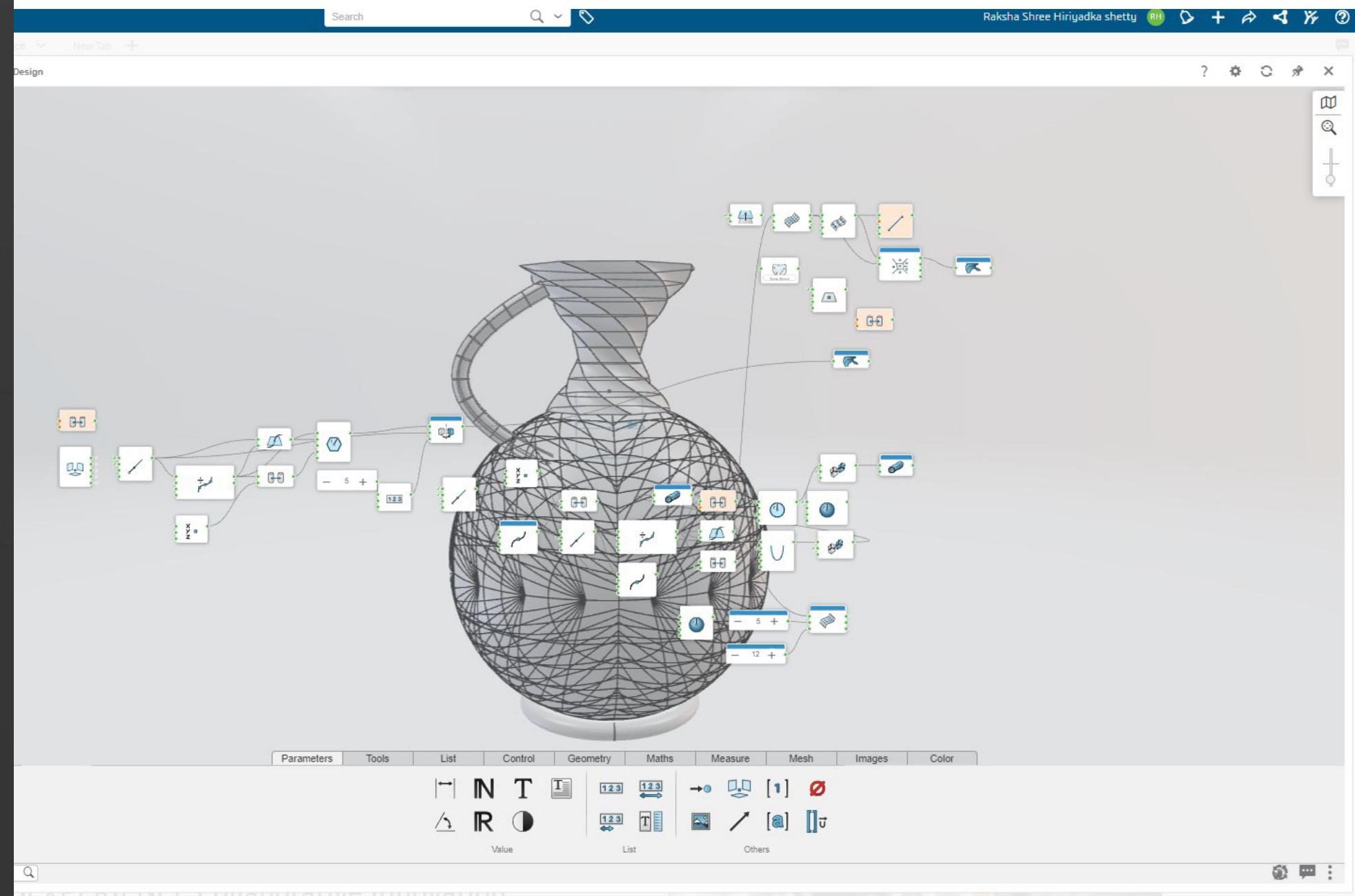
This is the art sculpture of flying bird. Sculpture inspires to stretch the wings and explore the opportunities out in the world. A bird is ready to take off with its wings fully formed in eager to see the world. Curiosity in eyes and open mindedness shows the way to destiny.

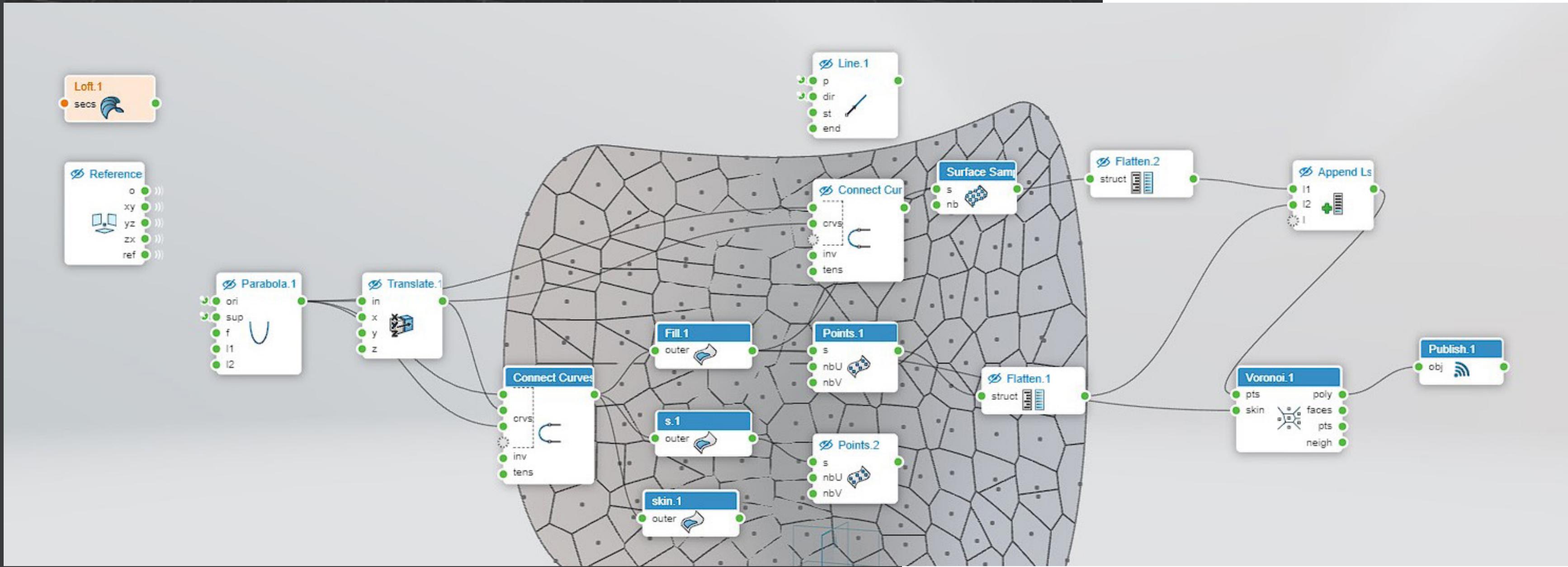
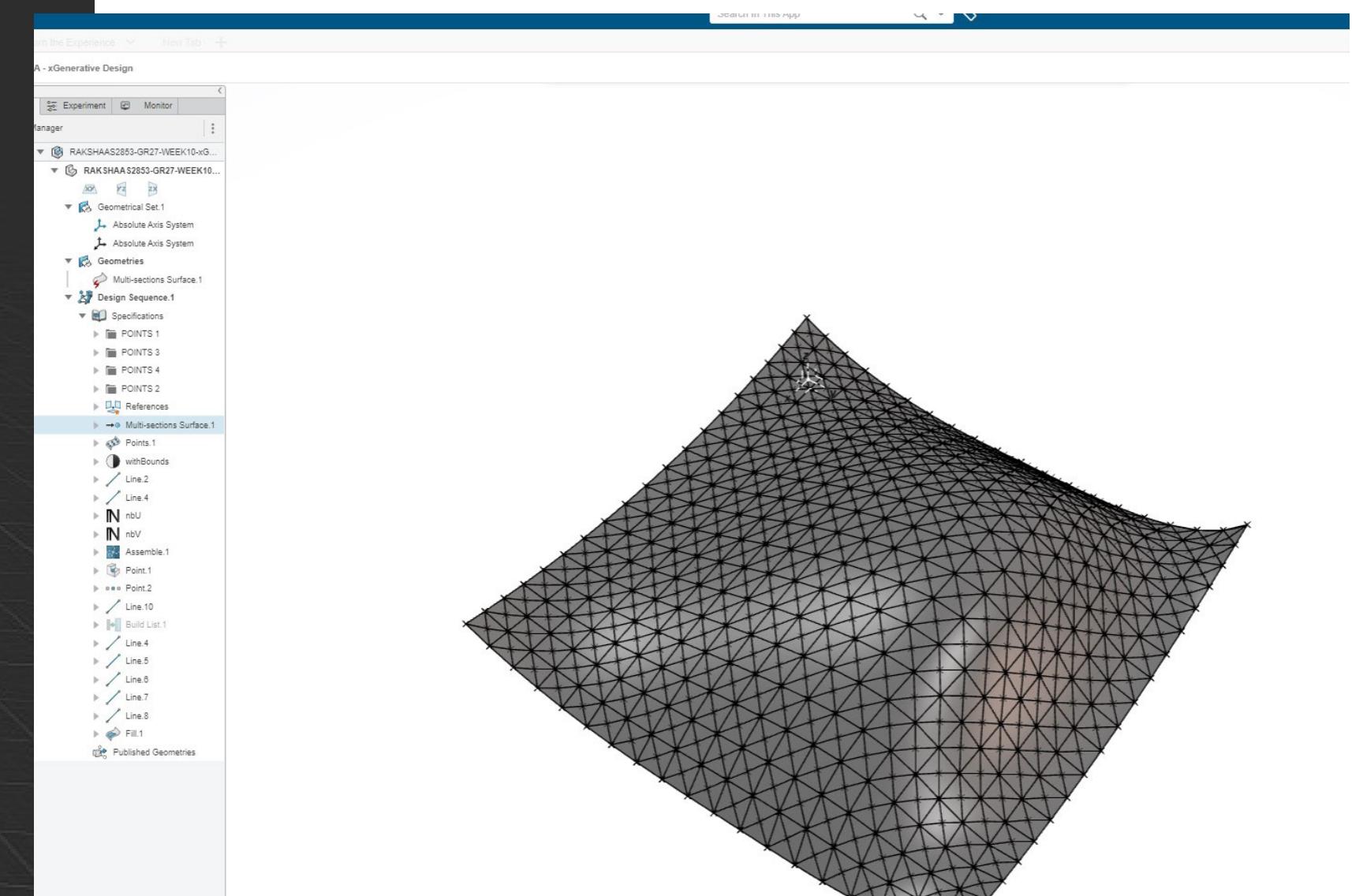
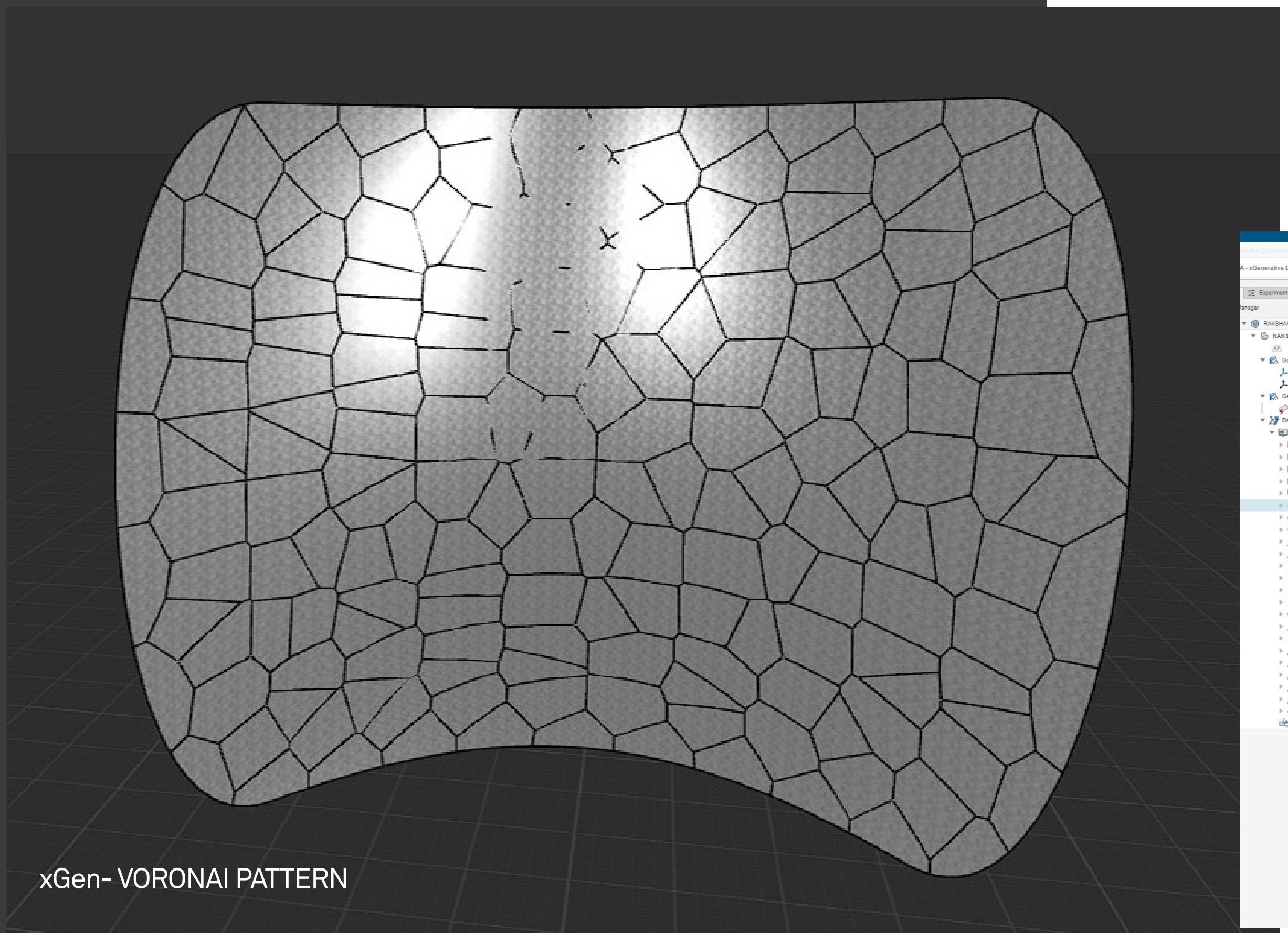
Abstract sculpture is evolved with curiosity of exploring the new application “Imagine and shape” and also utilizing the opportunity of freedom to create anything in mind.



## xGen -ANTIQUE POT

Patterns on antique potteries are unique and gorgeous. This exercise is inspired by one such indigenous art. Power of Xgen is utilized to create interesting patterns within few seconds and generate variations in it.

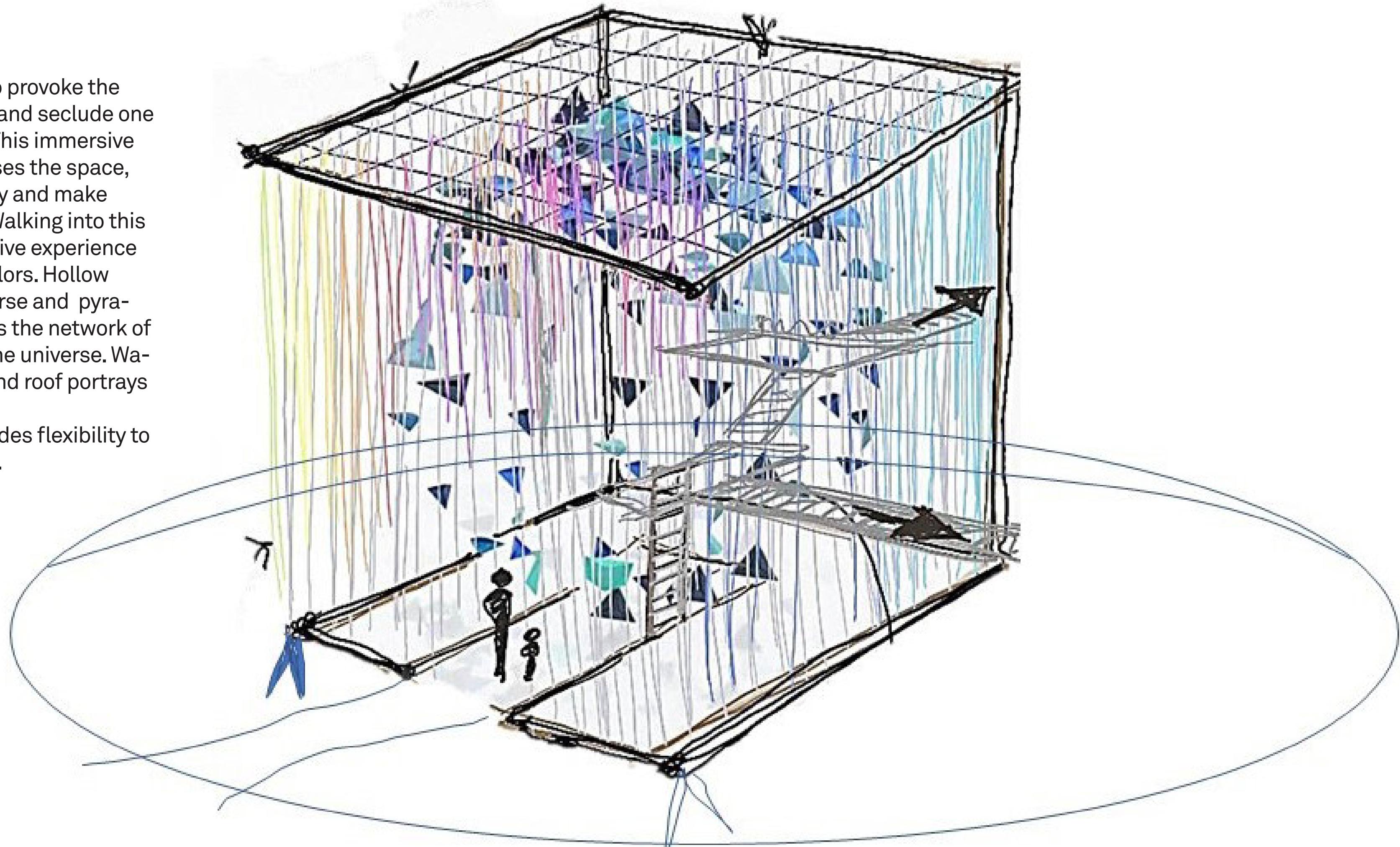


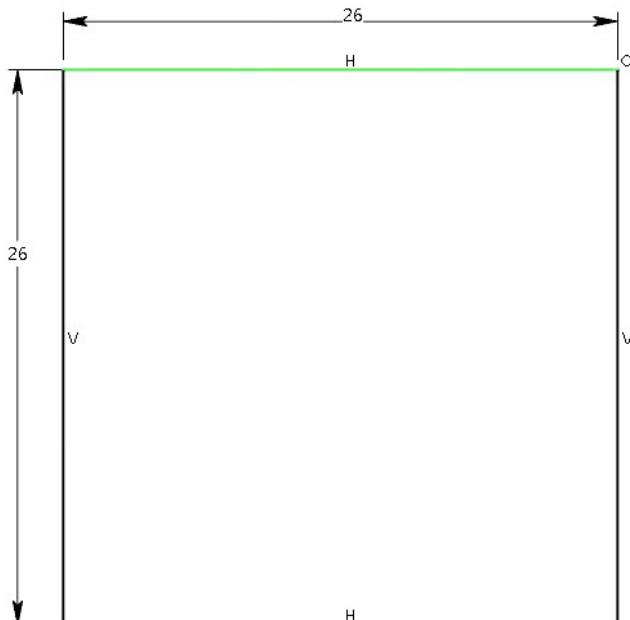


## MOMENT OF THOUGHT

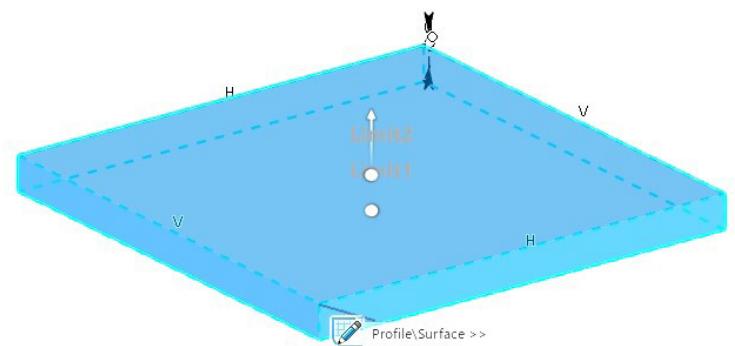
Designed space aims to provoke the moment of spirituality and seclude one from daily life hustles. This immersive installation superimposes the space, universe and technology and make one feel the joy of life. Walking into this space provides interactive experience of falling in love with colors. Hollow space represents universe and pyramid in group represents the network of technologies shaping the universe. Water and mirror in floor and roof portrays continuity.

Parametric power provides flexibility to build variation in colors.

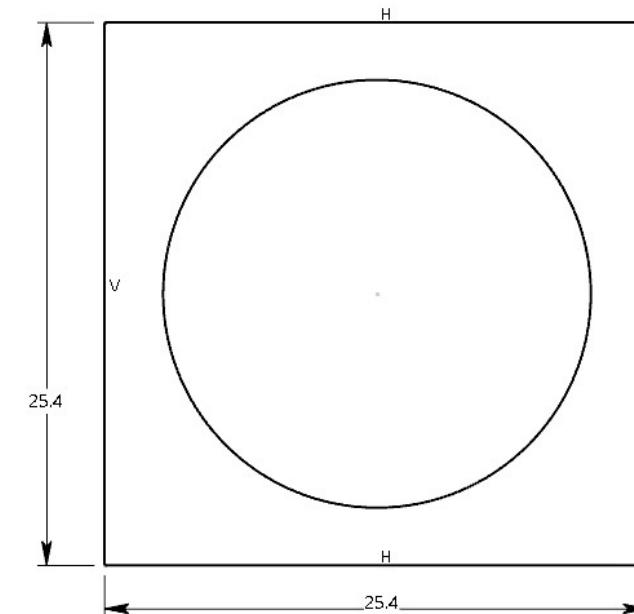




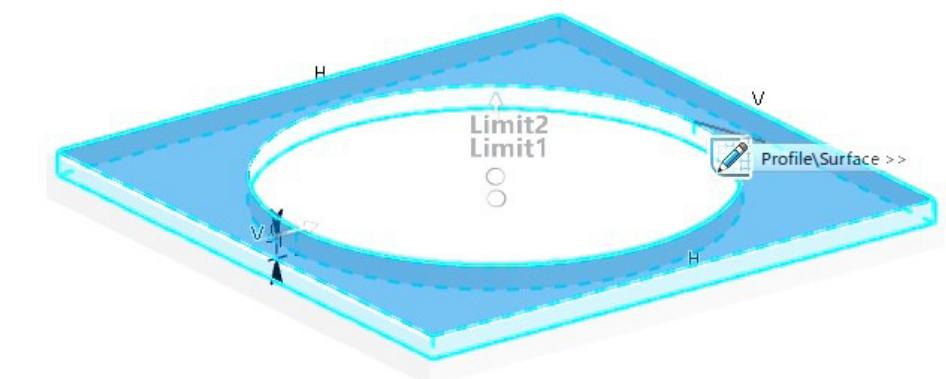
1- SITE BOUNDARY



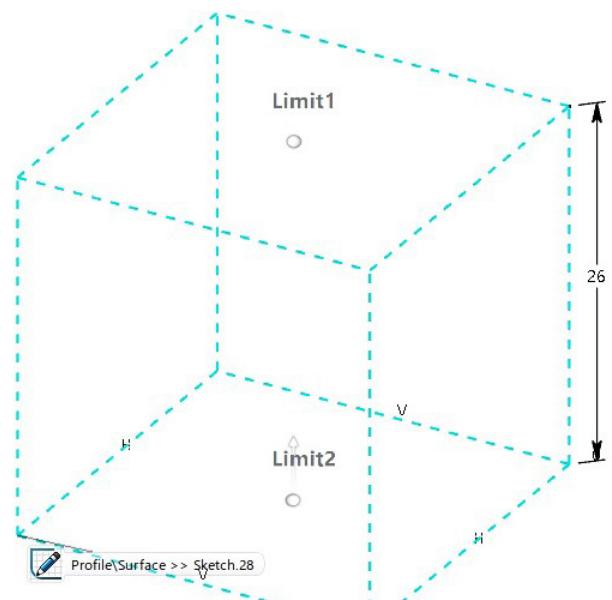
2- SITEPAD



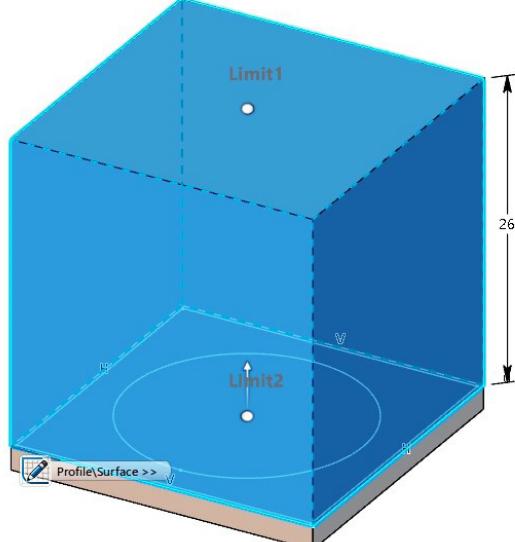
3- Sketch.WATERPAD



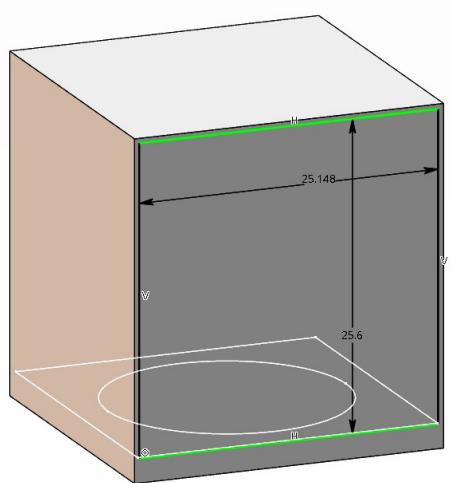
4- WATER



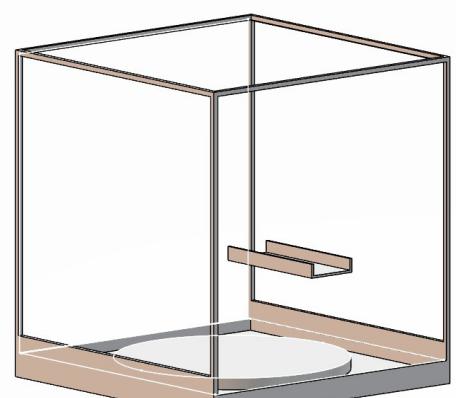
5- Sketch.BASE



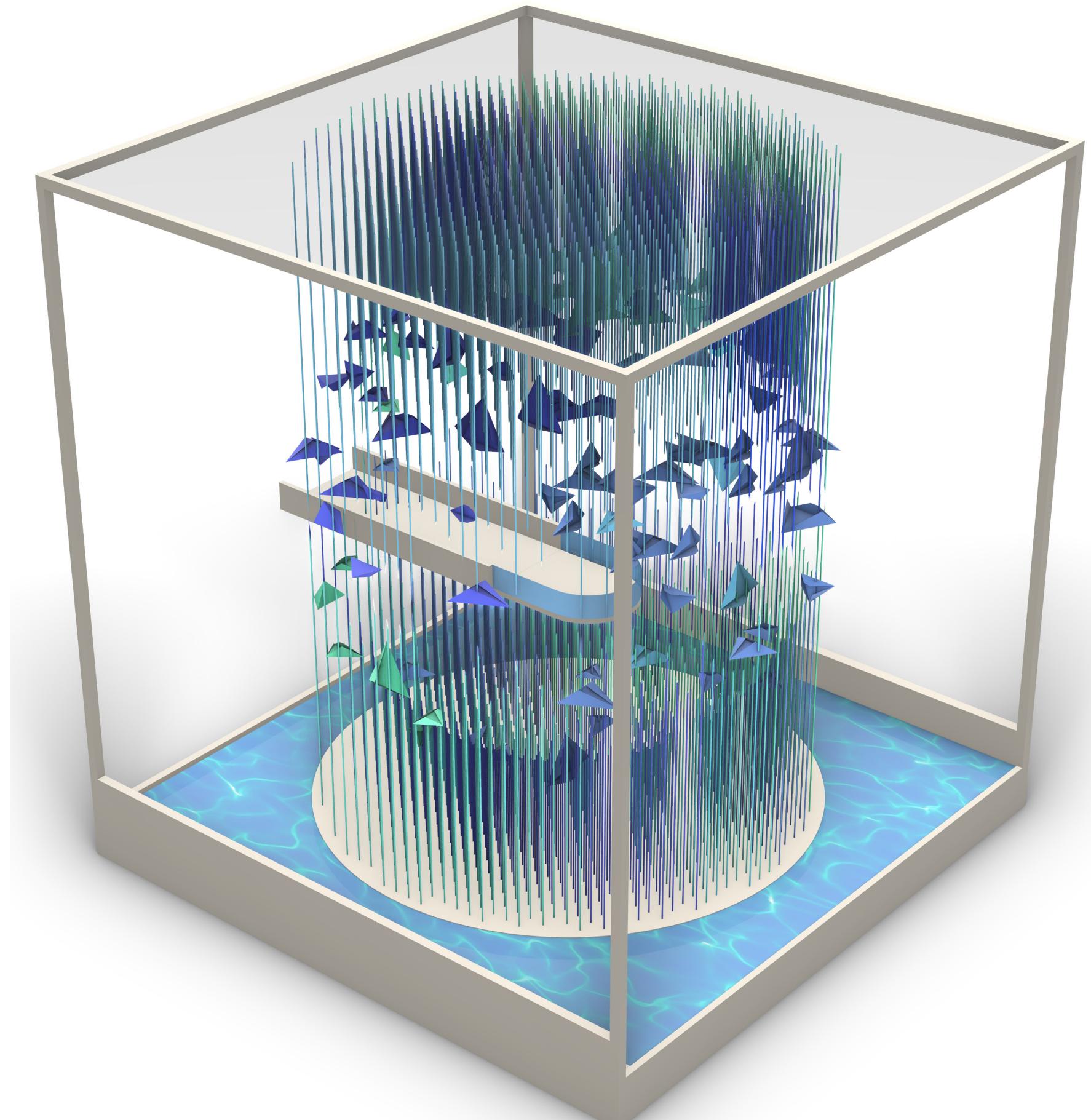
6- MAIN FRAME (PAD ON Sketch.BASE)

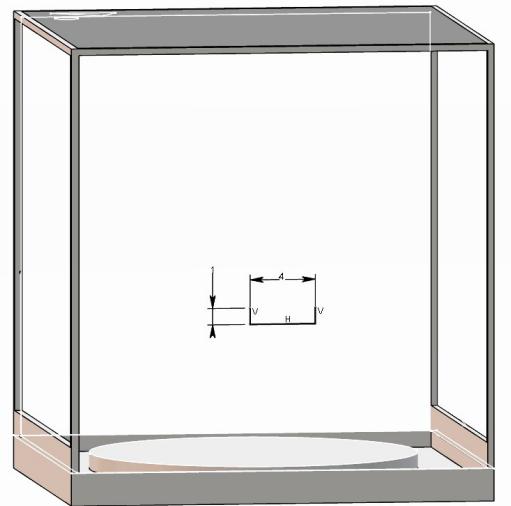


7- SKETCH 29 , SKETCH 30, SKETCH 31 on each face, for pocket MAIN FRAMECUT-1, 2 AND ROOF CUT

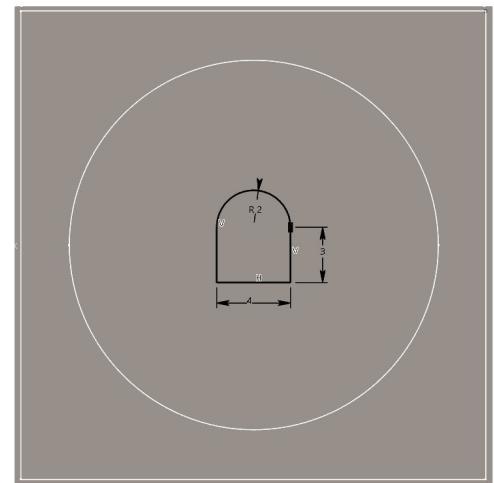


8- MAIN FRAMECUT-1, 2 AND ROOF CUT

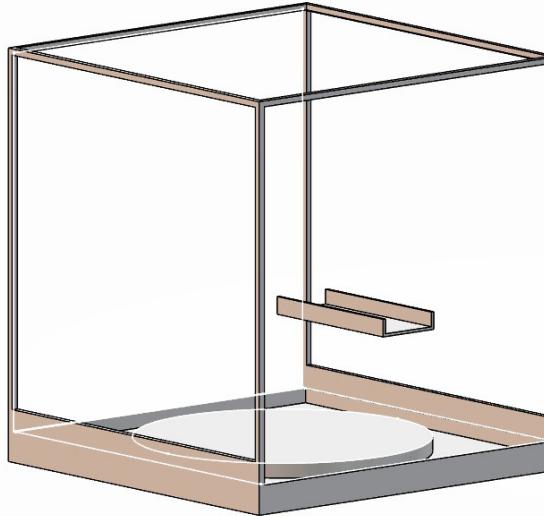




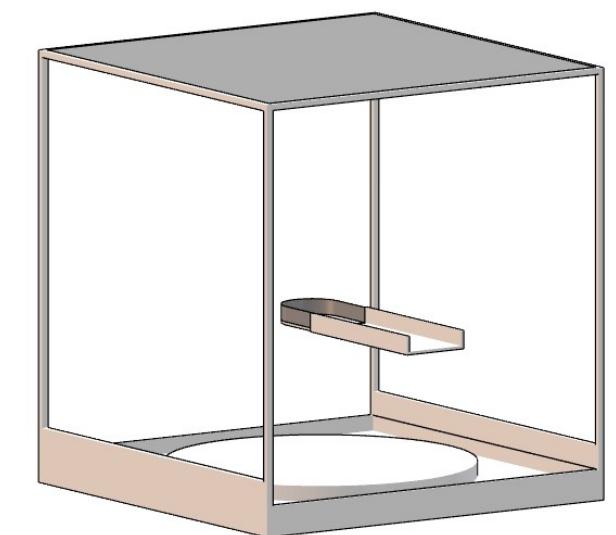
9- Sketch.BRIDGE



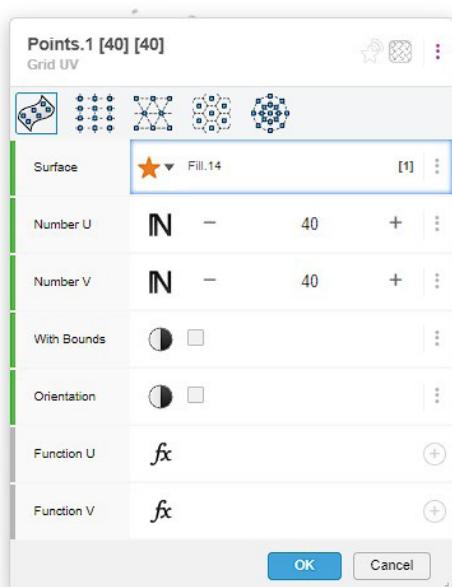
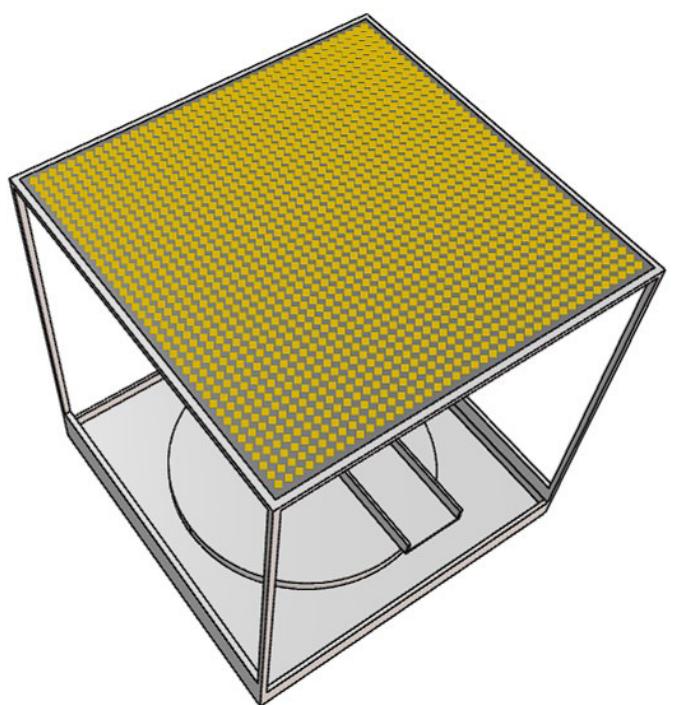
10- Sketch.BRIDGEEDGE



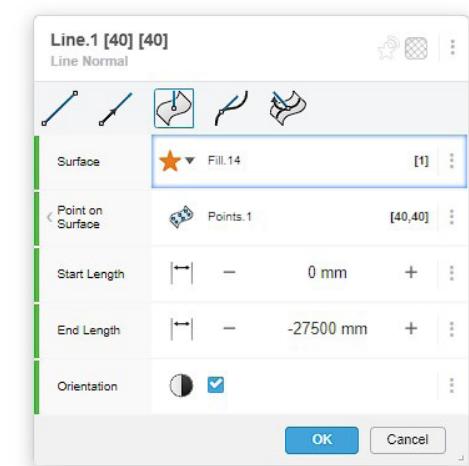
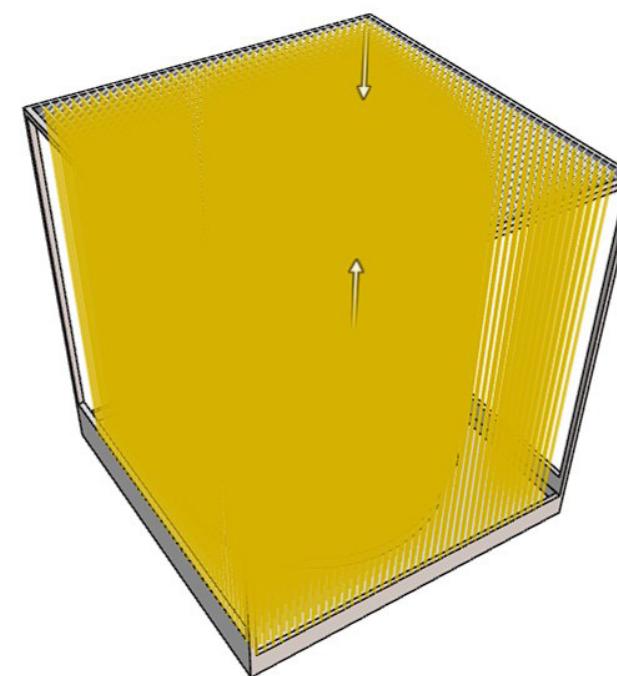
11- BRIDGE



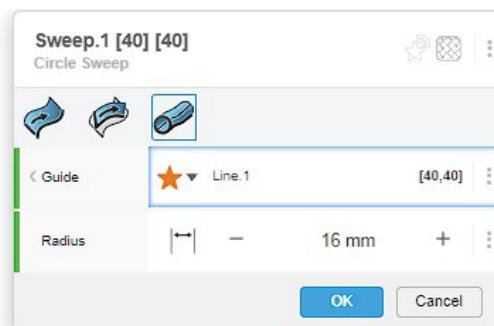
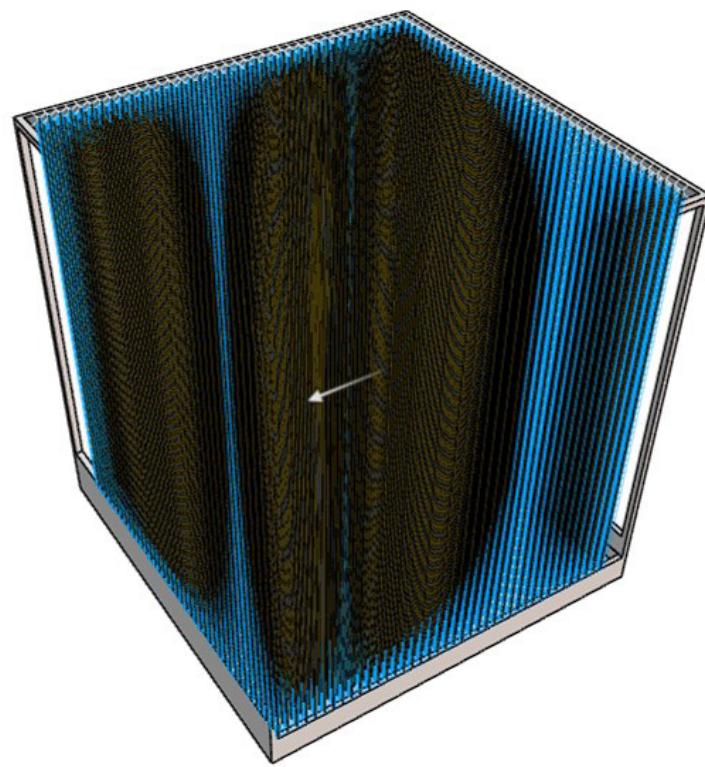
12- BRIDGEEDGE



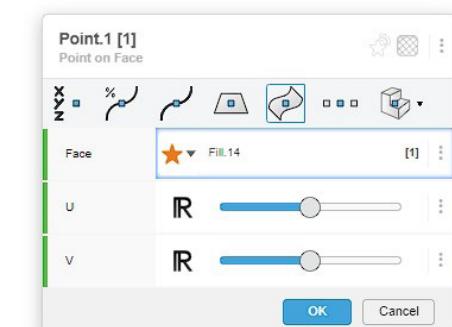
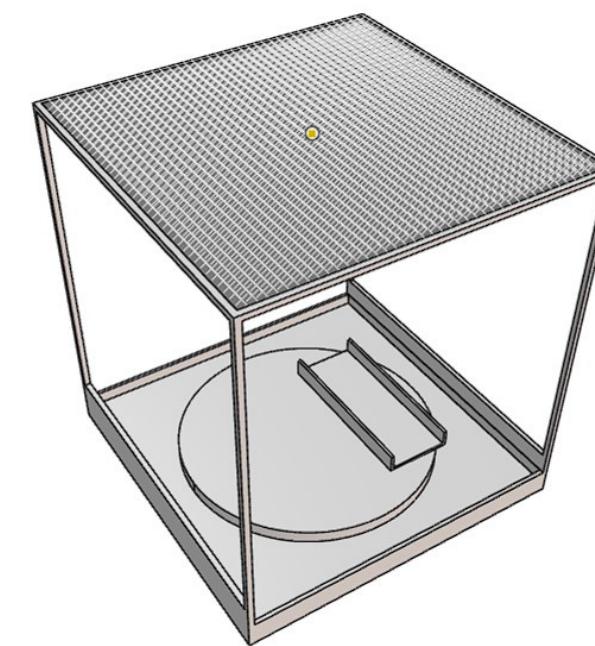
13- POINT



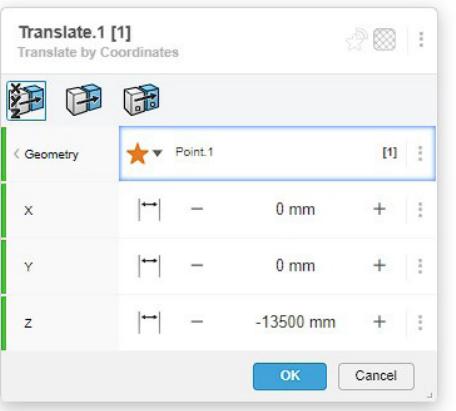
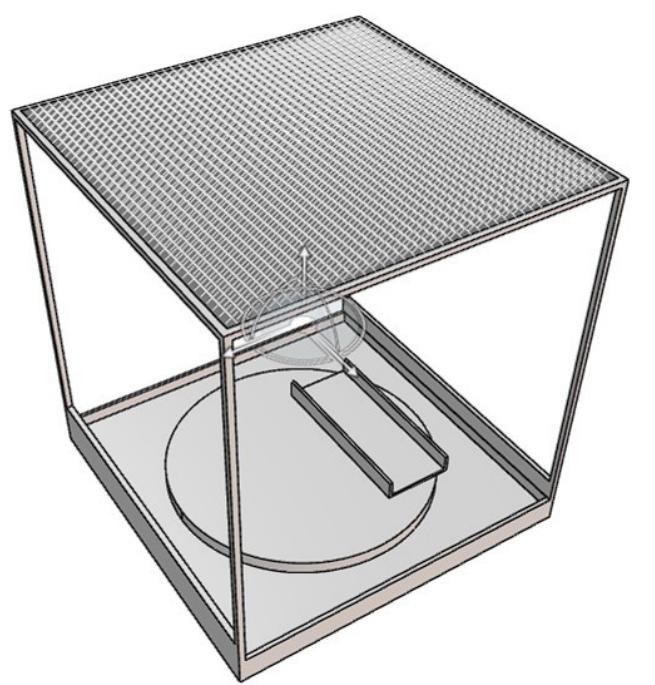
14- LINE



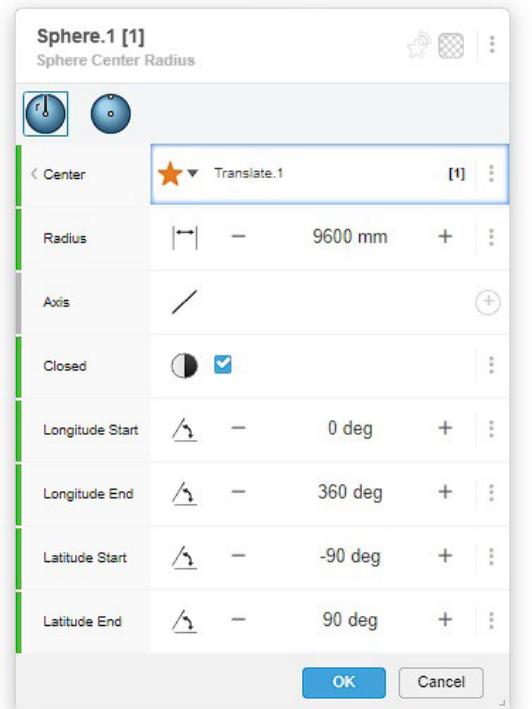
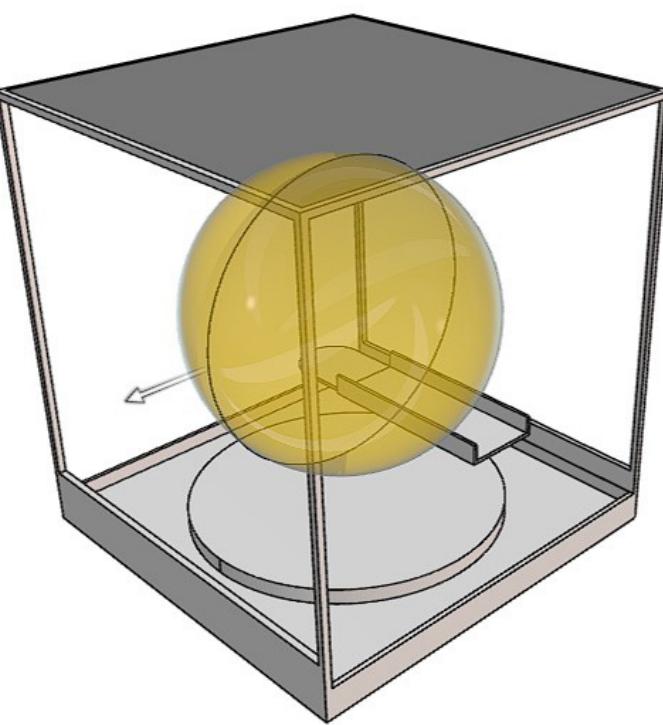
15- SWEEP



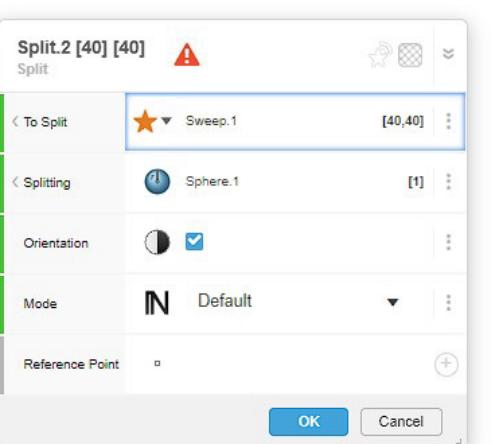
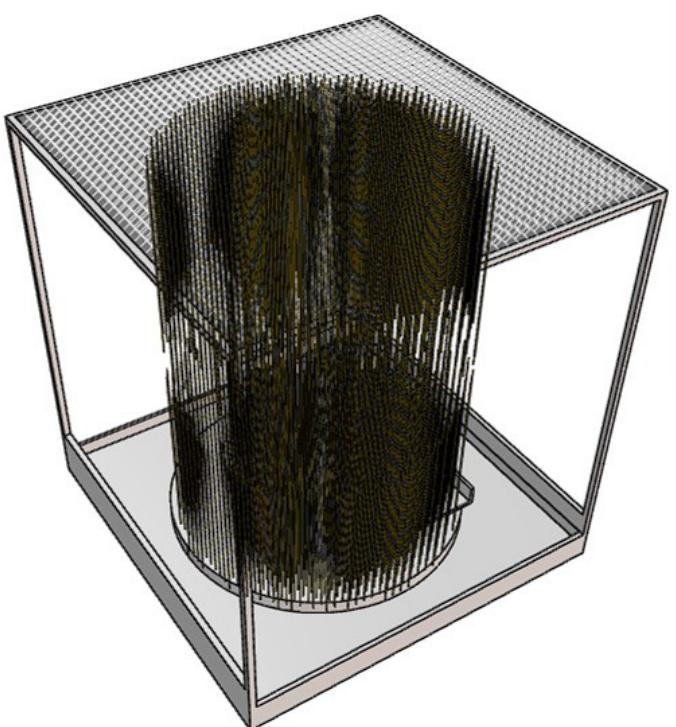
16- POINT 1



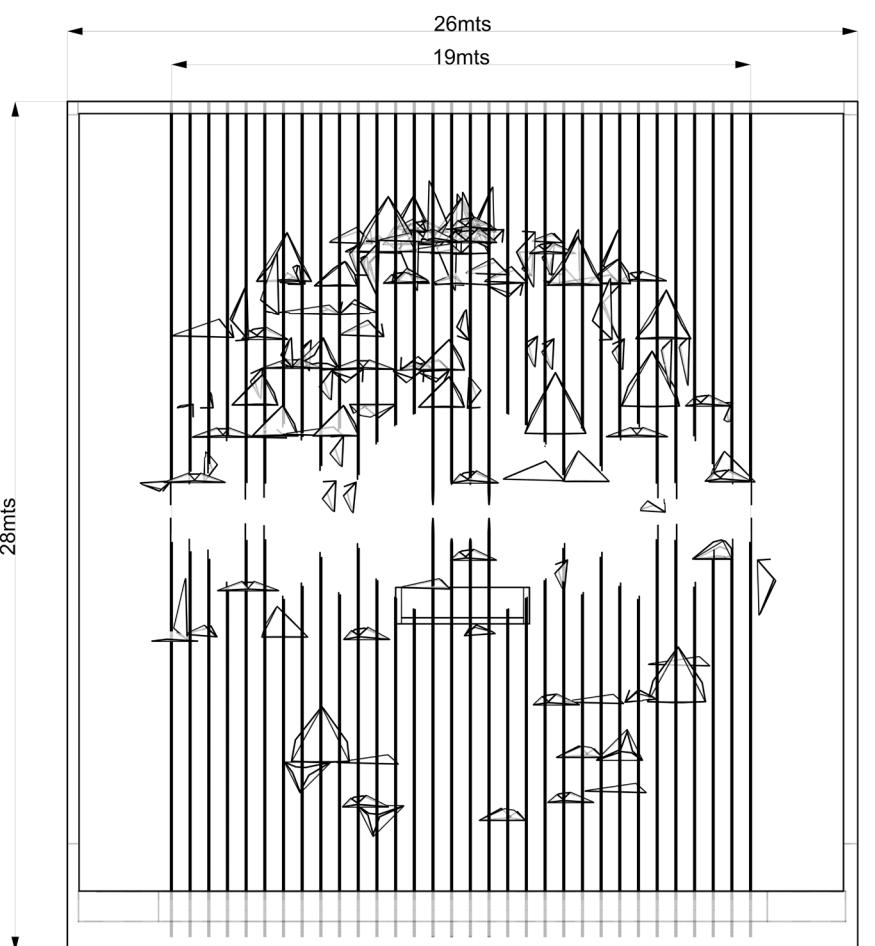
17- TRANSLATE (POINT 1)



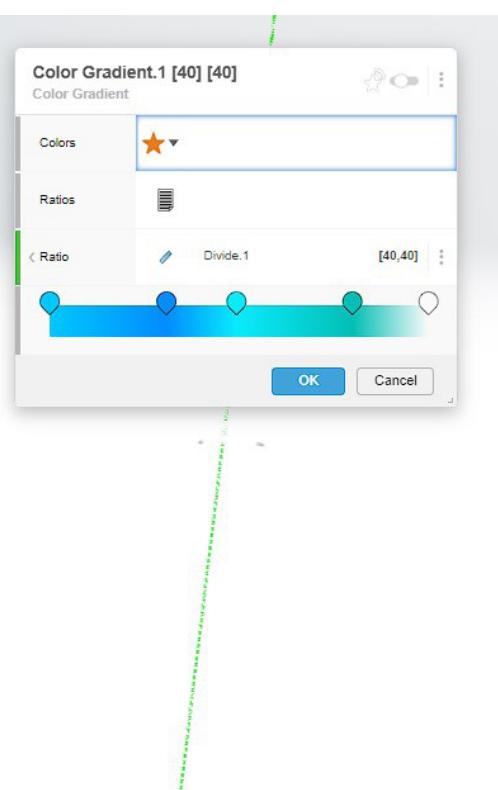
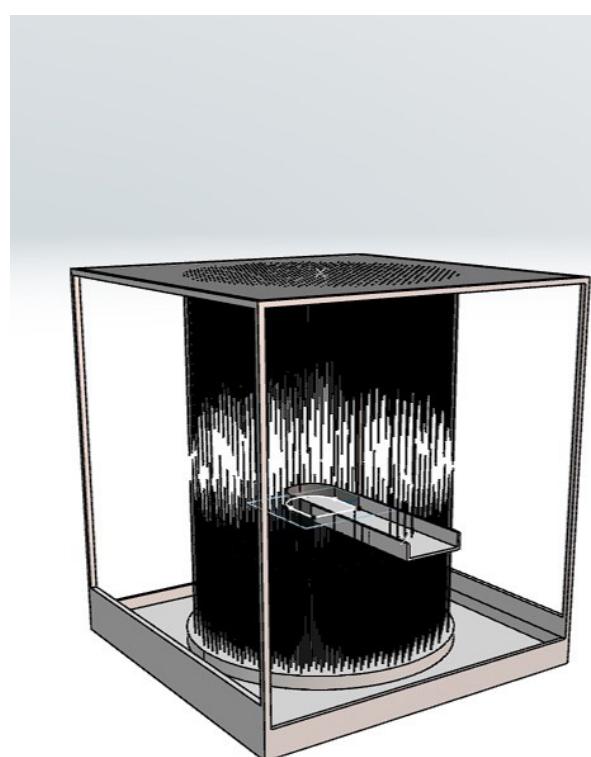
18- SPHERE 1



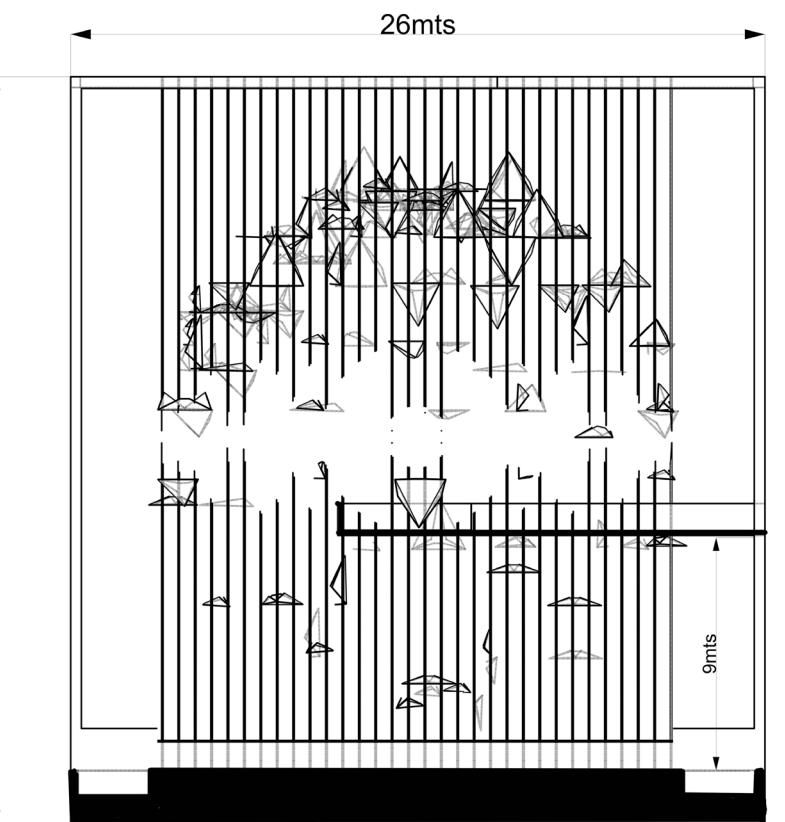
19- SPLIT



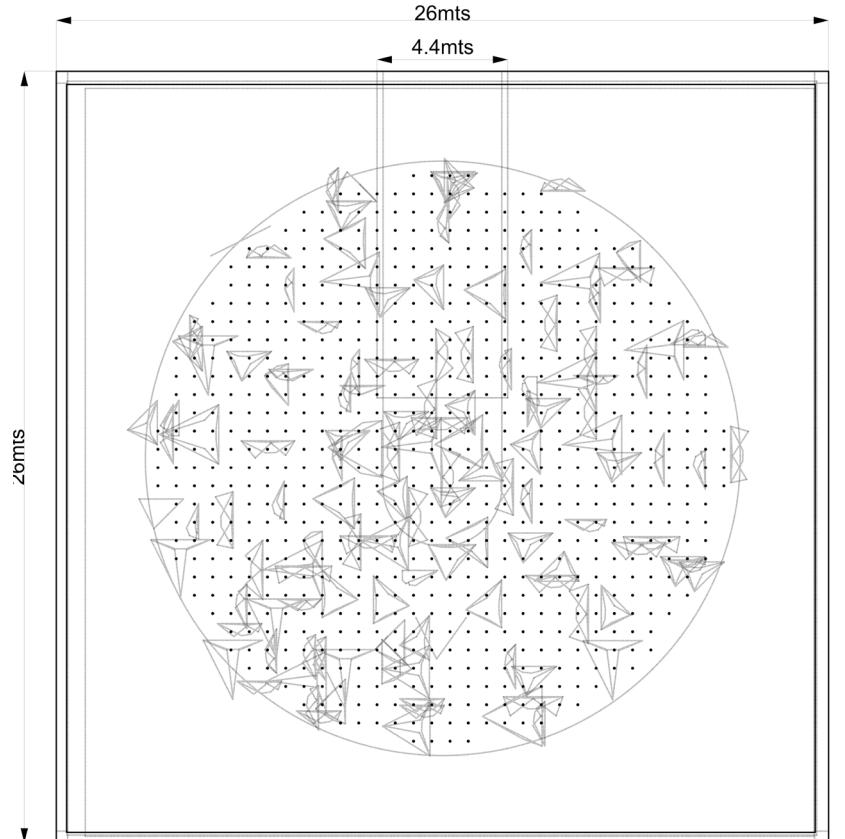
ELEVATION



20.COLORIZE.1



SECTION



PLAN

